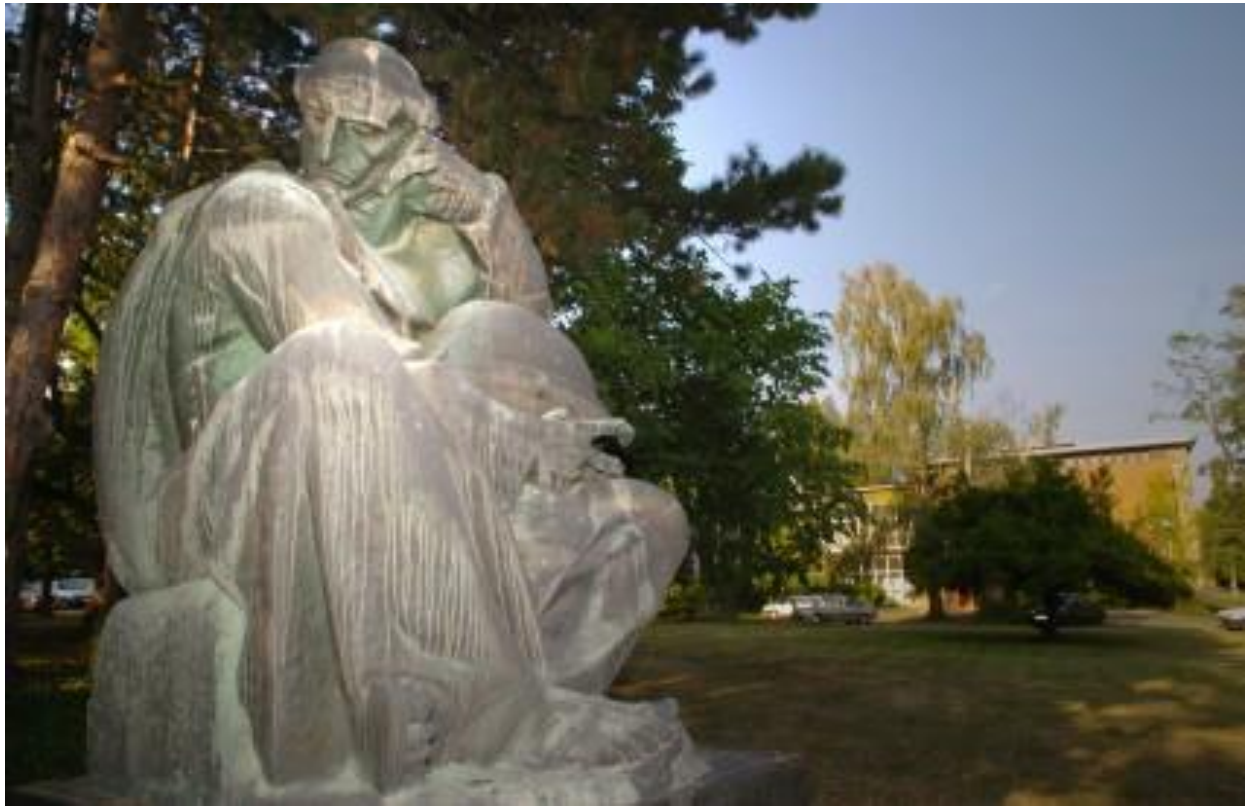


Matea Rogić

Laboratory for Radioecology
Division for Marine and Environmental Research
Rudjer Boskovic Institute
Zagreb, Croatia

RBI

- Ruđer Bošković Institute is the largest multidisciplinary research centre in Croatia with strengths in basic science and applied science research as well as higher education

- It was founded in 1950 as a centre for advanced research and named after the famous 18th century Croatian scientist Josip Ruđer Bošković (1711– 1787)

- 12 Divisions with a little over 900 employees

LRE

- Organisational unit of the Division for Marine and Environmental Research
- 9 employees:
  - 2 geologists – gamma spectrometry
  - 5 chemists – alpha/beta spectrometry
  - 2 technicians

LRE

- Scientific research
  - investigation of biogeochemical behavior of natural and artificial radionuclides in the environment
  - development and advancement of methods and procedures for alpha, beta and gamma radioactivity measurements

LRE

- Accredited by Croatian Accreditation Agency **HRN EN ISO/IEC 17025:2007** for five in-house methods and one international standard method for determination of:
  - **radionuclides by high resolution gamma spectrometry** in sediments, soil, food, biota, aqueous solutions and water
  - ^{89,90}**Sr** in sediments, soil, food, biota, aqueous solutions and water
  - ^{55}**Fe** in aqueous solutions
  - ^{3}**H** in natural and waste waters
  - **total alpha/beta** activity concentrations in non saline water (ISO 10704)

Personal data

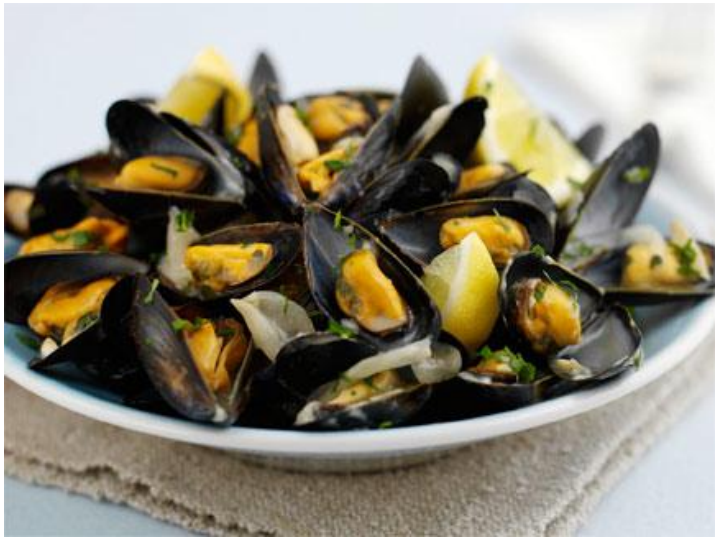
- Graduated Chemistry at the Faculty of Science, University of Zagreb
- Postgraduate student in Chemistry at the Faculty of Science, University of Zagreb
- **Research assistant** at RBI Laboratory for Radioecology

Field of work

- **Scientific research – radiochemistry**
  - development of methods for chromatographic isolation and separation of isotopes from natural samples
  - alpha spectrometry and LSC in determination of alpha and beta emitters ($^{234,238}U$, $^{226,228}Ra$, ^{210}Pb, ^{210}Po)
  - incorporation of methods in routine analyses of environmental samples – expansion of accrediation

Field of work

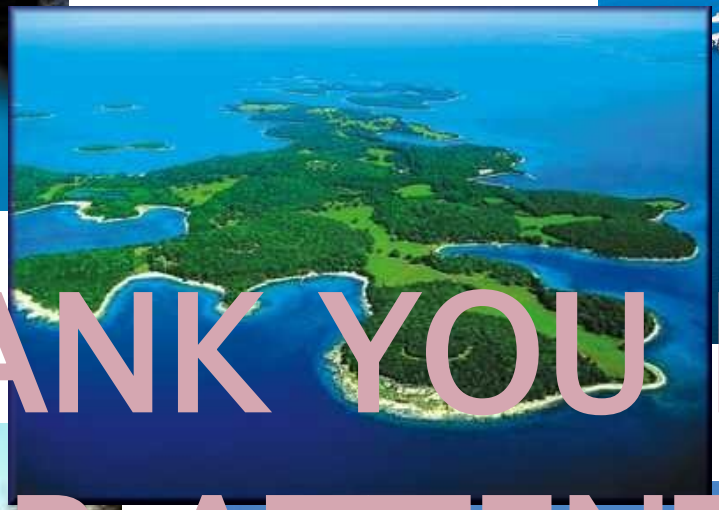
- Scientific research – radioecology
  - investigation of radionuclide migration mechanisms in the environment
  - dose assessment – food and drink



Field of work

- **Coworker in environmental monitoring**
  - Nuclear Power Plant Krško (Slovenia) – Sava river (water, sediments, biota) and effluents from the power plant
    - gamma spectrometry, total alpha/beta
  - Nuclear Power Plant Pakš (Hungary) – Danube river (water, sediments, biota)
    - gamma spectrometry
  - Mediterranean Mussle Watch programme along the Croatian coast of the Adriatic Sea
    - ^{210}Po and ^{210}Pb determination, gamma spectrometry





THANK YOU FOR YOUR ATTENTION